

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2152	(422/101).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/04 22:16
S2	1199	(422/70).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 14:44
S3	1419	(436/161).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 14:47
S4	6	((("6589396") or ("6616815") or ("6319706")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 14:52
S5	2	WO-2004079241-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/14 14:54
S6	2	("5293898").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 14:55
S7	4	("3087004").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 15:22
S8	2	("5706041").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 15:27
S9	4	((("6751925") or ("6477132")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 15:28

## EAST Search History

S10	6	(("20030197733") or ("6,192,768") or ("6,103,199")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 15:28
S11	2	ep-672834-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/28 17:53
S12	8	((("4708782") or ("5872010") or ("6541768") or ("6350617"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 15:31
S13	35	("2534181"   "3802782"   "3863495"   "3915652"   "3997298"   "4004150"   "4051731"   "4055987"   "4281246"   "4607163"   "4667100"   "4794088"   "4840074"   "4842701"   "5015845"   "5122670"   "5288514"   "5306412"   "5382793"   "5393975"   "5449902"   "5516698"   "5538897"   "5605616"   "5618693"   "5644130"   "5668370"   "5756994"   "5770860"   "5825026"   "5872010"   "5917184"   "6066848"   "6191418").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/14 15:34

## EAST Search History

S14	182	("3538744"   "3738759"   "3915652"   "4056324"   "4356722"   "4366118"   "4369664"   "4459267"   "4593728"   "4708782"   "4879097"   "4891120"   "4908112"   "4983038"   "5110745"   "5126022"   "5132012"   "5180480"   "5245185"   "5269900"   "5283036"   "5296114"   "5296375"   "5302533"   "5304487"   "5306621"   "5328578"   "5332481"   "5338427"   "5349186"   "5374834"   "5376252"   "5387329"   "5401376"   "5401963"   "5415841"   "5421980"   "5427946"   "5429734"   "5486335"   "5498392"   "5500071"   "5512131"   "5512451").PN. OR ("5872010").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/14 16:58
S15	61	S14 and orifice\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/14 17:59
S16	88	(S1 or S2 or S3) and orifice\$1 and channel\$1 and suppl\$4 and mix\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/14 18:00
S17	85	S16 and analy\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/14 18:01
S18	16	("3597022"   "4390403"   "4805761"   "5015906"   "5099216"   "5187399"   "5298875"   "5319336"   "5396136"   "5454472"   "5645702"   "5795457"   "5993632"   "6075924"   "6296752"   "6355491").PN. OR ("6858184").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/14 18:11

## EAST Search History

S19	182	("3538744"   "3738759"   "3915652"   "4056324"   "4356722"   "4366118"   "4369664"   "4459267"   "4593728"   "4708782"   "4879097"   "4891120"   "4908112"   "4983038"   "5110745"   "5126022"   "5132012"   "5180480"   "5245185"   "5269900"   "5283036"   "5296114"   "5296375"   "5302533"   "5304487"   "5306621"   "5328578"   "5332481"   "5338427"   "5349186"   "5374834"   "5376252"   "5387329"   "5401376"   "5401963"   "5415841"   "5421980"   "5427946"   "5429734"   "5486335"   "5498392"   "5500071"   "5512131"   "5512451").PN. OR ("5872010").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/14 18:11
S20	3428	(422/100).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/28 17:47
S21	6	((("5,624,638") or ("6,043,080") or ("6,103,199"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/28 17:57
S22	1719	(422/63).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/28 17:57

## EAST Search History

S23	79	("4426451"   "4676274"   "5126022"   "5143854"   "5171132"   "5188963"   "5230866"   "5252294"   "5271724"   "5277556"   "5281516"   "5296375"   "5304487"   "5346672"   "5375979"   "5382511"   "5384261"   "5424186"   "5436129"   "5451500"   "5486335"   "5498392"   "5585069"   "5587128"   "5589350"   "5610010"   "5631134"   "5660993"   "5871928").PN. OR ("6043080"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 18:25
S24	2155	(422/101).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/28 18:26
S25	1201	(422/70).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/28 18:26
S26	1420	(436/161).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/28 18:26
S27	3	(S20 or S22 or S24 or S25 or S26) and ("lab on a chip" or lab-on-chip)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 18:55
S28	656	(S20 or S22 or S24 or S25 or S26) and (piezo or jet\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 19:54
S29	325	(S20 or S22 or S24 or S25 or S26) and (check near valve\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 18:43
S30	32	S28 AND S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/28 18:53

## EAST Search History

S31	563	S28 AND analy\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/28 18:54
S32	510	S28 AND detect\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/28 18:54
S33	30	S30 and (S31 or S32)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/28 18:59
S34	2083	(S20 or S22 or S24 or S25 or S26) and (mix\$3 or agitat\$4) and (heat\$3 or cool\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 18:56
S35	287	S34 and S28	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 18:57
S36	19	S35 and S29	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 18:58
S37	18	S36 and (S31 or S32)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/28 18:59
S38	39	("3536449").URPN.	USPAT	OR	ON	2006/02/28 19:09
S39	14	("3192968"   "3282651"   "3536449"   "3687632"   "3912456"   "4341736"   "4841786"   "5183638").PN. OR ("5343770").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 19:42
S40	535	(S20 or S22 or S24 or S25 or S26) and microfluidic	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 19:56
S41	117	S40 and mix\$3 same (series or serial or sequen\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 20:38
S42	99	S41 and (eject\$3 or inject\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/28 20:38

## EAST Search History

S43	127	(("20020045265") or ("20020074271") or ("20020097632") or ("20020112961") or ("20020143437") or ("20020164824") or ("20020182113") or ("20020187074") or ("20030017467") or ("20030156992") or ("20030198576") or ("20030210607") or ("20050265899") or ("3536449") or ("3915652") or ("4000976") or ("4055987") or ("4607163") or ("4667100") or ("4676274") or ("5343770") or ("5645801") or ("5701937") or ("5706041") or ("5770860") or ("5872010") or ("5917184") or ("5922591") or ("6033628") or ("6043080") or ("6048734") or ("6103199") or ("6133044") or ("6191418") or ("6197595") or ("6207031") or ("6350617") or ("6355491") or ("6454924") or ("6485689") or ("6508938") or ("6511850") or ("6544734") or ("6548263") or ("6555389") or ("6623860") or ("6645432") or ("6685809") or ("6729352") or ("6730516") or ("6737022") or ("6794197") or ("6799572") or ("6805841") or ("6818395") or ("6830936") or ("6852287") or ("6878540") or ("6899137") or ("6911183") or ("6919046") or ("6929030") or ("6951632") or ("6991713") or ("6995024")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/01 13:11
S44	7	(("3,807,004") or ("5,293,898") or ("5,900,130")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/01 10:05
S45	15	(("2,893,416") or ("3,082,748") or ("3,112,768") or ("3,768,521") or ("6,131,880") or ("6,283,440")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/01 10:07

## EAST Search History

S46	8	((("4,891,120") or ("6,264,892") or ("6,344,120") or ("6,444,150")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/01 10:08
S47	4	WO-2002101383-\$.did. WO-200138865-\$.did. WO-200185602-\$.did. WO-200153819-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/01 10:09
S48	12	((("3915652") or ("5178191") or ("6012479") or ("5836355") or ("6495103")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/01 11:18
S49	2	("5908552").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/01 11:31
S50	2	("6852287").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/01 12:02



## EAST Search History

S51	127	(("20020045265") or ("20020074271") or ("20020097632") or ("20020112961") or ("20020143437") or ("20020164824") or ("20020182113") or ("20020187074") or ("20030017467") or ("20030156992") or ("20030198576") or ("20030210607") or ("20050265899") or ("3536449") or ("3915652") or ("4000976") or ("4055987") or ("4607163") or ("4667100") or ("4676274") or ("5343770") or ("5645801") or ("5701937") or ("5706041") or ("5770860") or ("5872010") or ("5917184") or ("5922591") or ("6033628") or ("6043080") or ("6048734") or ("6103199") or ("6133044") or ("6191418") or ("6197595") or ("6207031") or ("6350617") or ("6355491") or ("6454924") or ("6485689") or ("6508938") or ("6511850") or ("6544734") or ("6548263") or ("6555389") or ("6623860") or ("6645432") or ("6685809") or ("6729352") or ("6730516") or ("6737022") or ("6794197") or ("6799572") or ("6805841") or ("6818395") or ("6830936") or ("6852287") or ("6878540") or ("6899137") or ("6911183") or ("6919046") or ("6929030") or ("6951632") or ("6991713") or ("6995024")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/01 13:11
S52	12	S51 and check near valv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/01 13:11
S53	19	S51 and eject\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/01 15:04

## EAST Search History

S54	3	("6607907").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/04 22:16
S55	2	("20020045265").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/04 22:23

## EAST Search History

S56	145	(("20020000517") or ("20020045265") or ("20020074271") or ("20020097632") or ("20020112961") or ("20020143437") or ("20020164824") or ("20020182113") or ("20020187074") or ("20030017467") or ("20030156992") or ("20030198576") or ("20030210607") or ("20050265899") or ("3536449") or ("3768521") or ("3915652") or ("4000976") or ("4055987") or ("4607163") or ("4667100") or ("4676274") or ("5178191") or ("5343770") or ("5645801") or ("5701937") or ("5706041") or ("5770860") or ("5836355") or ("5872010") or ("5917184") or ("5922591") or ("6012479") or ("6033628") or ("6043080") or ("6048734") or ("6103199") or ("6133044") or ("6191418") or ("6197595") or ("6207031") or ("6283440") or ("6344120") or ("6350617") or ("6355491") or ("6454924") or ("6485689") or ("6495103") or ("6508938") or ("6511850") or ("6544734") or ("6548263") or ("6555389") or ("6607907") or ("6623860") or ("6645432") or ("6685809") or ("6729352") or ("6730516") or ("6737022") or ("6794197") or ("6799572") or ("6805841") or ("6818395") or ("6830936") or ("6852287") or ("6878540") or ("6899137") or ("6911183") or ("6919046") or ("6929030") or ("6951632") or ("6991713") or ("6995024"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/05 20:49
S57	75	S56 and (jet\$1 or inject\$3 or Eject\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/05 21:40

## EAST Search History

S58	3	S56 and (jet\$1 with ( piezo or heat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/05 21:41
S59	577	(422/102 or 422/104) and eject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/06 18:32
S60	858	(422/102 or 422/104 or 436/180) and eject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/06 18:32
S61	2227	436/180	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/06 18:32
S62	759	S60 and (module\$1 or unit\$1 or section\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/06 18:33
S63	670	S62 and liquids	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/06 18:33
S64	488	S63 and (seal\$3 or gasket\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/06 18:33
S65	354	S64 and (analyz\$3 or detect\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/06 18:34
S66	106	S60 and (module\$1 or unit\$1 ) with (sequence or sequentially)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/06 18:34

## EAST Search History

S67	2	("6287872").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:01
S68	37	("20010041357"   "20020015952"   "20020106786"   "20030027354"   "20030215941"   "5216126"   "5498392"   "5565365"   "5770029"   "5922210"   "5922591"   "5948227"   "5948441"   "5962081"   "5993661"   "6007775"   "6042709"   "6046056"   "6051380"   "6139831"   "6156527"   "6168948"   "6187190"   "6197595"   "6197599"   "6221600"   "6306590"   "6306628"   "6316266"   "6429025"   "6432290"   "6440725"   "6444461"   "6482607"   "6488897"   "6498039"   "6531283").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/06 21:11
S69	3	S68 and eject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/06 21:22
S70	2	("6878271").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:23
S71	12	("5922210"   "5922591"   "5948227"   "5948441"   "5962081"   "6007775"   "6042709"   "6046056"   "6168948"   "6187190"   "6197595"   "6440725").PN. OR ("6878271").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/06 21:34
S72	2	("6659012").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:40

## EAST Search History

S73	2	("6520626").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:43
S74	2	("5863129").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:47
S75	2	("5441821").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:48
S76	2	("5388905").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:49
S77	2	("4247262").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:51
S78	2	("5326228").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:53
S79	2	("5578270").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:54
S80	4	("7007759").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:55
S81	2	("6786579").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/06 21:55

## EAST Search History

S82	5	("3544020").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/07 14:25
S83	2	("4405069").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/07 14:25